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Date of Deposit: April 12, 2002



Attorney Docket No.: 21402-224AF (Cura-524AF)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Padigaru et al.

SERIAL NUMBER: 10/023,601

EXAMINER: Not Yet Assigned

FILING DATE: December 18, 2001

ART UNIT: 1646

FOR: Novel Proteins and Nucleic Acids Encoding Same

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BOX IDS

Assistant Commissioner for Patents
Washington, D.C. 20231

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TRANSMITTAL LETTER

Transmitted herewith for filing in the above-referenced patent application are the following documents:

1. Information Disclosure Statement (2 pages), in duplicate;
2. Modified Form 1449/PTO (2 pages), in duplicate;
3. Copies of cited references C1-C13; and
4. Return postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at 617-542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 21402-224AF (Cura-524AF). A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

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Matthew J. Golden, Reg. No. 35,161

Attorneys for Applicant

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Date: April 12, 2001



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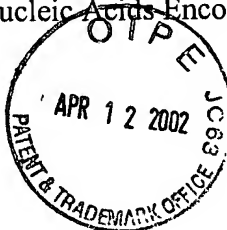
PATENT TRADEMARK OFFICE

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INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449, as well as copies of the listed documents.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in the above-identified case. Accordingly, no fee or certification is believed required.

It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

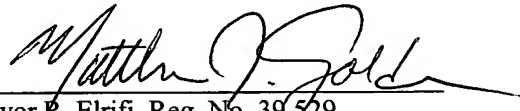
By submitting this Information Disclosure Statement, the Applicants make no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

APPLICANTS: Padigaru et al.
U.S.S.N.: 10/023,601

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested.

Please charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 21402-224AF (Cura-524AF).

Respectfully submitted,



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|--|-------------------------------|---------------------------|
| Modified Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | Application Number | 10/023,601 |
| | Filing Date | 12/18/01 |
| | First Named Inventor | Padigaru |
| | Group Art Unit | 1646 |
| | Examiner Name | Not Yet Assigned |
| | Attorney Docket Number | 21402-224AF (Cura-524 AF) |

| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|----------|--------------------------|------------|-------------------------------------|-------|-----------|----------------------------|
| Exam Initials | Cite No. | U.S. Patent Document No. | Issue Date | Name of Patentee(s) or Applicant(s) | Class | Sub Class | Filing Date If Appropriate |
| | | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|----------|---------------------------------------|-------------------------------------|---------------------|--------------------|
| Exam Initials | Cite No. | Foreign Patent Document Office Number | Name of Patentee(s) or Applicant(s) | Date of Publication | Translation Yes No |
| | | | | | |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | |
|---|----------|---|
| Exam Initials | Cite No. | Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc. |
| | C1 | Asai et al. (1996). "Genomic structure and transcription of a murine odorant receptor gene: differential initiation of transcription in the olfactory and testicular cells." <i>Biochem Biophys Res Commun</i> <u>221</u> (2): 240-247. |
| | C2 | Ben-Arie et al. (1994). "Olfactory receptor gene cluster on human chromosome 17: possible duplication of an ancestral receptor repertoire." <i>Hum Mol Genet</i> <u>3</u> (2): 229-235. |
| | C3 | Buck and Axel (1991). "A novel multigene family may encode odorant receptors: a molecular basis for odor recognition." <i>Cell</i> <u>65</u> (1): 175-187. |
| | C4 | Issel-Tarver and Rine (1996). "Organization and expression of canine olfactory receptor genes." <i>Proc Natl Acad Sci U S A</i> <u>93</u> (20): 10897-10902. |
| | C5 | Krautwurst et al. (1998). "Identification of ligands for olfactory receptors by functional expression of a receptor library." <i>Cell</i> <u>95</u> (7): 917-926. |
| | C6 | Malnic et al. (1999). "Combinatorial receptor codes for odors." <i>Cell</i> <u>96</u> (5): 713-723. |
| | C7 | Online Mendelian Inheritance in Man (OMIM): 164342 |
| | C8 | Parmentier et al. (1992). "Expression of members of the putative olfactory receptor gene family in mammalian germ cells." <i>Nature</i> <u>355</u> (6359): 453-455. |
| | C9 | Rouquier, S., C. Friedman, et al. (1998). "A gene recently inactivated in human defines a new olfactory receptor family in mammals." <i>Hum Mol Genet</i> <u>7</u> (9): 1337-1345. |
| | C10 | Thomas, M. B., S. L. Haines, et al. (1996). "Chemoreceptors expressed in taste, olfactory and male reproductive tissues." <i>Gene</i> <u>178</u> (1-2): 1-5. |
| | C11 | Vanderhaeghen, P., S. Schurmans, et al. (1997). "Specific repertoire of olfactory receptor genes in the male germ cells of several mammalian species." <i>Genomics</i> <u>39</u> (3): 239-246. |
| | C12 | Walensky, L. D., M. Ruat, et al. (1998). "Two novel odorant receptor families expressed in spermatids undergo 5'- splicing." <i>J Biol Chem</i> <u>273</u> (16): 9378-9387. |
| | C13 | Xie, S. Y., P. Feinstein, et al. (2000). "Characterization of a cluster comprising approximately 100 odorant receptor genes in mouse." <i>Mamm Genome</i> <u>11</u> (12): 1070-1078. |

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* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application,
Serial No. _____, filed _____, and relied upon for an earlier filing date under
35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

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citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

TRA 1654224v1